J. Ministry



14/11/11/20

1600

RAW SEQUENCE LISTING

DATE: 11/21/2002

PATENT APPLICATION: US/08/832,443C

TIME: 14:35:54

Input Sct : A:\08832443.txt

Output Set: N:\CRF4\11212002\H832443C.raw

#### SEQUENCE LISTING

```
4 (1) GENERAL INFORMATION:
             (!) APPLICANT: TEYRLOVA, IRENA
                            WOLPE, STEPHEN D.
             (ii) Title of ilvantion: Inhibitor of stem cell proliferation and
                                      USES THEREOF
     10
           (111) NUMBER OF SEQUENCES: 36
            (iv) COLRESPONDENCE ADDRESS:
     1.4
                  (A) ADDRENSEE: NIMON & VANDERHYE P.C.
                                                                 ENTERED
                   (B) OTHERT: 1100 NORTH GLEBE ROAD
                   () CITY: ABLINGTON
                   D) STATE: VIRGINIA
                   E) COUNTRY: U.S.A.
                   F) 21F: .2201-4714
             (v) COMPUTER READABLE FORM:
                   A) MEDIUM TYPE: Flappy disk
     24
                  (B) COMPUTER: IEM FC compatible
                   () OFFRATING SYSTEM: PC-DOS/NS-DOS
     26
                   D) SOFTWARE: MS Word
     8.5.
           (vi) CUERENT AFFILICATION DATA:
C--> 29
                  (A) APPLICATION NUMBER: US/08/832,443C
C-->30
                  (B) FILING DATE: 03-Apr-1997
     3:
                   C) CLASSIFICATION:
     3.3
           (vii) PRIOR AFFICATION DATA:
     3.4
                   A: APELLICATION NUMBER: US 08,627,173
     3.5
                   B: FILING DATE: 03-APR-1996
     39 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHAFACTERISTICS:
     40
     41
                   A: LENGIH: 13 amino acids
                  ·B: TYLE: amino acid
     42
     4.3
                   C STEAM EDMESS:
     4.4
                  -D: TOPOLOGY: linear
     4.6
            (ii) MOLECULE TYPE: peptide
     45
            (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     50
            Phe Pro His Fh. Asp Leu Ser His Gly Ser Ala Gln Val
     51
                                                  1.0
     54 (2) INFORMATION FOR SEQ ID NO: 2:
     C \in
             (i) SEQUENCE CHARACTERISTICS:
     57
                  (A LENGTH: 15 amino acids
                  (B) TYFE: amino acid
     58
     59
                  (C) STEAN EDNESS:
     60
                  (D) TOFCL(GY: linear
     62
            (ii) MCLECULE THEE: peptide
```

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### RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/832,443C

Input Set : A:\08832443.txt

```
(xi) SEQUENCE DESCRIPTION: SEQ 1D NO: 2:
64
66
        Cys Ehe Pro Hi Phe Asp Leu Ser His Gly Ser Ala Gin Val Cys
67
7 (2) INFORMATION FOR SEQ ID NO: 3:
7.
       (1) SEQUENCE CHARACTERISTICS:
73
             (A) LENGIH: 19 amino acids
71
              E) TYPE: Emino acid
79
             (C) STRANDEDNESS:
76
              D) TOPOLOGY: linear
7:
       (ii) MOLECULE PIPE: peptiae
8:1
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
        Asp A.a Leu Irr Asr Ala Val Ala His Val Asp Asp Met Pro Ash Ala
8 5
                                          10
Q =
       Leu Ser Ala
89 (2) INFORMATION FOR SEQ ID NO: 4:
       (1) SEQUENCE CHARACTERISTICS:
9.
             -A) LENCIH: 12 amino acids
9 -
             :E) TYPE: smino acid
94
              C) STRANDEDNESS:
              D) TOPOLOGY: linear
Q.
       (ii) MODECULE IPPE: peptide
Q
       (x1) SUPPLEMENT RESPONDENTION: SEQ ID NO: 4:
94
1 1
       leu Val Val lyr Ero Trp Thr Gln Arg Phe
1:12
        1
105 (2) INFORMATION FOR SEQ ID NO: 5:
1:17
        (i) REQUENCE CHAFACTERISTICS:
163
              (A) DENGTH: # amin: acids
1:13
              (A) TYPE: amino acid
11.0
              (D) SIFAMOFONESS:
111
              (To TOFOLOGY: linear
        (ii) MOLECULE TYPE: peptide
11.3
        xi: SEQUENCE DESCRIPTION: SEQ ID NO: 5:
11.5
117
         Leu Val Val Tyr Ero Trp Thr Gln Arg
118
        1
1.1 (2) INFORMATION FOR SEQ ID NO: 6:
11.3
        (i) PEQUENCE CHARACTERISTICS:
1...1
              (A LENGIH: E amine acids
1.5
              (E: TYFF: amono acid
              (C SIFAUDEDNESS:
1..6
1. 7
              (0 TOFCLOGY: lirear
       (ii) MCLECULE TYPE: peptide
1. 9
        (xi) CEQUENCE RESCRIPTION: SEQ ID NO: 6:
1 \cdot 1
        Leu Val Val Tyr Fro Trp Thr Gln
1:3
1 \cdot 4
        1
157 (2) INFORMATION FOR SEQ ID NO: 7:
139
       (i) SEQUENCE CHARACTERISTICS:
140
             (A) LENGIE: 7 amino acids
141
              (B) TYFE: amino acid
142
              (C) STRANDEDNESS:
```

## RAW SEQUENCE LISTING

FATENT APPLICATION: US/08/832,443C

DATE: 11/21/2002 TIME: 14:35:54

Input Set : A:\08832443.txt

```
143
              (D) TOPOLOGY: linear
1.15
       (ii) MOLECULE TYPE: peptide
        (xi) REQUENCE DESCRIPTION: SEQ ID NO: 7:
1.47
149
        Lea Val Val ly: Pro Trp Thr
150
153 (2) INFORMATION FOR SEQ ID NO: 8:
        (i) DEQUENCE CHARACTER OTICS:
1 - 1
1 6
              -A: DENOTE: + amino acids
1 5 7
              -B: TYFF: amino avid
153
              (C) STRANDEDNESS:
              -D: TORGOGY: limear
1 > 0
    (ii: MOLECULE TIPE: peptide
16:
165
       - (xi) SEQUENCE PESCHIPTION: SEQ ID NO: 8:
165
        Les Mal Val Tyr Pro Tro
1 . , , ,
169 (2) INFORMATION FOR SEC ID NO: 9:
1 . .
    (i - MEQUENCE CHARACTERISTICS:
              (A) LENGIE: ! amino acids
1 ...
1 3
              (E) TYPE: amono avid
              (I) STRANDEDNESS:
1.;
              (C) TOPOLOGY: linear
      ( i MOLECULE 1:Ph: poptide
1
1.9
       (xi DEQUENCE DESCRIPTION: SEQ ID NO: 9:
1 = 1
       Let Val Val Ty: Fro
1 - . .
1:3 (2) INFORMATION FOR SEQ ID NO: 10:
1 - 1
        (i DEQUENCE CHARACTERISTICS:
1
              (A LENSIH: | amine acids
1 - 9
              (B) SYPE: amuno adid
              (C - STRANDEDNESS:
190
] +1
              (1) TOPOLOGY: linear
193
      (Bi: MOUECULE TYPE: peptide
1 🖽
        (xi, FEQUENCE INSCRIPTION: SEQ ID NO: 10:
1.47
        Val Val Tyr Fro Trp The Gln
1.48
2 1 (2) INFORMATION FOR SEQ ID NO: 11:
2 1 1
      (i SEQUENTE CHAFACTERISTICS:
200
             (A) LENGTH: T amino acids
\geq r(t)
              (E) TYPE: amino acid
2045
              (C) STRANDEDNESS:
20.7
              (2) TOPCIOGY: linear
20.9
       (ii MCLECULE TYPE: peptide
2.1.1
       (xi: SEQUENCE LESCHIPTION: SEQ 1D NO: 11:
213
        Tyr Pro Tro Thr Gln Ard Phe
214
217 (2) INFORMATION FOR SEQ ID NO: 12:
2.9
       (i) SEQUENCE CHARACTERISTICS:
220
             (A) LENGIH: € amino acids
221
              (B) TYPE: amino acid
```

# RAW SEQUENCE LISTING

LATENT APPLICATION: US/08/832,443C

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Input Set : A:\08832443.txt

```
22.2
              (C) STRANDEDNESS:
              (D) TOPOLOGY: linear
223
      (ii) MOLECULE TYPE: peptide
2.25
       - (xi) JEQUENCE DESCRIPTION: SEQ ID NO: 12:
229
        Tyr Pro Trp Thr Gln Arg
230
UBD (2) INFORMATION FOR SEQ ID NO: 13:
234
        - (i - JEQUENCE CPARACTERISTICS:
              (A) LENGIE: 5 amino anids
3.36
3.3
              (B) FYPE: amino acid
              (C) STRANDEDNESS:
5.3
              (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: peptide
241
245
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
≥ 4 %
        -Tyr Pro Psp Thr @lm
246
        1
249 (2) INFORMATION FOR SEQ ID NO: 14:
건되는
       (i) SEQUENCE CHARACTERISTICS:
              (A) LENGIH: 6 amino acids
              (B) TYPE: amin: abid
              (e^{\circ}) -STRANDEDNESS:
              (D) TOPOLOGY: linear
      (ii - MOLECULE TiPE: peptide
2-5-1
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
3.61
        Ard Met Trp Met Ete Ard
R65 (2) INFORMATION FOR SEQ ID NO: 15:
        (i) DEQUENCE CHARACTERISTICS:
Ér.
26÷
              (A) LENGIE: 423 base pairs
              (B) TYPE: nucleic acid
269
              (C) SIRANGEUNESS: single
271
              (D) TOPOLOGY: lirear
       (li] MOLECULE TYPE: INA (genomic)
       (xi] SEQUENCE SESCRIPTION: SEQ ID NO: 15:
.D77 GTGCTDTCT: CT910GACAA GACCAACSTC AAGGCCGCCT GGGGTAAGGT CGGCGCGCAC
                                                                            60
PROCESSED DOTTOCCETOTOTO AGGETTERAGE AGGETTE ATTOCCETOCCETOCCETOCACCAAG
                                                                            120
281 ACCTACTICO OGCACITOGA COTGAGOCAC GGOTOTGCCO AGGTTAAGGG JCAOGGCAAG
                                                                            180
28? AAGGTGGCCG ACGCDCLGAC CAACGCCGTG GCGCACGTGG ACGACATGCC DAACGCGCTG
                                                                            240
18: TCCGCCCTGA GCGA 1019CA CGCGCACAAG CTTCGGGTTGG ACCCGGTCAA CTTCAAGCTC
                                                                            300
287 CTAAGCCACT GCCTCCTGGT GACCCTGGCC GCCCACCTCC CCGCCGAGTT CACCCCTGCG
                                                                            360
H89 GTGCACGCCT CCCTGGACAA GTICCTGGCT TCTGTGAGCA CCGTGCTGAC CTCCAAATAC
                                                                            420
                                                                            423
291 CGT
294 (2) INFORMATION FOR SEQ ID NO: 16:
296
       (i) SEQUENCE CHARACTERISTICS:
297
              (A) LENGTH: 141 amino acids
2.96
              (P) TYPE: amino acid
234
              (C) STRANCEDNESS:
300
              (D) TCPCLCGY: linear
    (ii) MOLECULE TYPE: peptide
302
```

# RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/832,443C

DATE: 11/21/2002 TIME: 14:35:54

Input Set : A:\08832443.txt

```
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
304
        Mal Leu Ser Pro Ala Asp Lys Thr Ash Mal Lys Ala Ala Trp Gly Lys
306
307
                                           10
31.9
        Tal Gly Ala His Ala Gly Glu Tyr Gly Ala Glu Ala Leu Glu Ard Met
310
                                        2.1
                                                            30
         Phe Let Ser Phe Pro The Thr Lys The Tyr Phe Pro His Phe Asp Let
         3.5
                                    4+
        Ser Hill Cly Ser Ala Gln. Val Lys Gly His Gly Lys Lys Val Ala Asp
2.36
                                                    60
                                50
3.18
        Ala Let Thin Ash Ara Va. Ala His Vo. Asp Asp Met Pro Ash Ala Leu
3.19
                            70
        Ber Ala Leu Ser Asp Leu His Ala His Lys Leu Arg Va. Asp Pro Val
                                            <del>3</del>)
        Ash Phe Lys Leu Leu Ser His Cys Leu Lou Val Thr Leu Ala Ala His
3. .;
                    -1.640
                                        100
                                                     110
3.00
        Ded Pro Ala Glu Ehe The Pro Ala Val His Ala Ser Let Asp Lya Phe
         115 1.0
9. 9
         Deu Ala Sen Val Ser Thr Val Dou Thr Ser Dys Tyr Arg
        4 5 5
 +5 (2) INFORMATION FOR SEQ ID NO: 17:
        (i) SEQUENCE CHAFACTERISTICS:
             (A) INNETH: 458 base pairs
             (E) TYPE: nucleic acid
341
             (C) STRAMDEDNESS: single
            (D) TOPOLOGY: linear
341
3.1
       (ii) MOIECULE TYPE: DNA (genomic)
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
547 STECACCTEA CTOUTEARGA GAAGTOTECO STIACTSCOO TETEGGECAA EGTEAACETE
34 % GAIPGAASTIG GIPGGIGA 200 CCIGGGCAGG CISCIG SIGG ICTACCIIITG GACCCAGAGG
                                                                         120
3' | TTOTT BAST COTTT SSUCA TOTSTOCACT COTSATUCTS TTATSGSCAA COCTAAGGTS
                                                                         180
SUE AAGGOTOATG GOAA MAARIT GOTOGGTGOO TITTAGTRATG GOOTGGOTOA COTGGACARO
                                                                         240
31% CTCAAGGGCA COTTTGCCAC ACTGAGTGAG CTGCACTGTG ACAAGCTGCA CGTGGATCCT
                                                                         300
310 GAGAACTTCA GECTECTECT CO CAACCTOCTG GTCTGT FTGC TGGCCCATCA CTTTGGCAAA
                                                                         360
                                                                         420
390 SAATTJACCO CACCASTOCA OSCIONOTAI CASAAASIGG IGGOIGGIGI GGCIAAIGCO
                                                                         438
SEL CTGGC CCACA RETATIONS
3)4 (2) INFORMATION FOR SEC ID NO: 18:
         (i) SEQUENCE CHARACTERISTICS:
517
             (A) LENGTH: 146 amino adida
5-6-3
             (B) PYPE: andre and
36.9
             (C) DIFAMORDNESS:
             (D) TOPOLOGY: linear
       (li) MOLECULE TYPE: peptide
31.4
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
        -Val Ris Leu Trr Pro Glu Glu Lys Ser Ala Val Thr Ala Leu Trp Gly
500
5 14
         ays Mal Amn Wel Aup Glu Mal Bry Gly Glu Ala Leu Gly Arg Leu Leu
                 20
                                    25
\mathbb{R}^{n+2}
        Val Val Tyr Fio Trp Thr Gln Arg Phe Pho Glu Sor Pho Gly Asp Leu
353
```